



PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**MAIL STOP PATENT APPLICATION**  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

*NEW APPLICATION TRANSMITTAL*

Transmitted herewith for filing is the patent application entitled

**A RECURSIVE LEAST SQUARES APPROACH TO CALCULATE MOTION  
 PARAMETERS FOR A MOVING CAMERA**

By: Samuel Henry Chang, J. Joseph Fuller, Ali Farsaie and Leslie Ray Elkins

**1. Type of Application**

Original (non-provisional)

**2. Required Papers Enclosed under 37 CFR 1.53(b) (Regular):**

14 Pages of specification

8 Pages of claims

1 Page of Abstract

8 Sheets of Drawings (Figures 1-9)

**3. Declaration or oath**

Enclosed

**4. Preliminary Amendment**

Enclosed

**5. Assignment**

An assignment of the invention to:

A check in the amount of \$\_\_\_\_\_ is enclosed as well as the "Assignment Recordation Form Cover Sheet".

**6. Priority**

Priority is hereby claimed to Patent Application No. filed

**7. Information Disclosure Statement**

Enclosed       Form 1449 PTO       References

**8.  Applicant claims small entity status (see 37 CFR 1.27).**

**9. Fee Calculation (37 CFR 1.16)**

CLAIMS AS FILED				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
TOTAL CLAIMS (37 CFR 1.16(c))	20 - 20 =	0	x \$ 9	= \$0.00
INDEPENDENT CLAIMS (37 CFR 1.16(b))	3 - 3 =	0	x \$ 43	= \$0.00
MULTIPLE DEPENDENT CLAIMS (IF APPLICABLE) (37 CFR 1.16(d))		ANY -- 0	\$ 290	= \$0.00
BASIC FEE (37 CFR 1.16(a))				\$385.00
TOTAL =				\$ 385.00

10.  A check in the amount of \$385.00 is enclosed.
11. **Authorization to Charge Deposit Account**
- The Commissioner is hereby authorized to charge the following additional fees or credit any overpayment during the entire pendency of this application to Deposit Account No. 06-0308.
- 37 CFR 1.16(a), (f) or (g) (filing fees)
- 37 CFR 1.16(b), (c), and (d) (presentation of extra claims)
- 37 CFR 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)

12. **Please address correspondence and direct telephone calls to:**

Philip J. Moy, Esq.  
Fay, Sharpe, Fagan, Minnich & McKee, LLP  
1100 Superior Avenue, Seventh Floor  
Cleveland, OH 44114-2518  
Telephone: 216/861-5582  
Facsimile: 216/241-1666  
Email: pmoy@faysharpe.com

Respectfully submitted,  
FAY, SHARPE, FAGAN,  
MINNICH & MCKEE, LLP

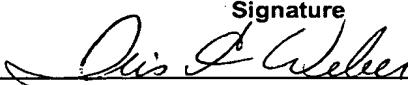
3/31/04  
Date

  
Philip J. Moy, Reg. No. 31,280  
John P. Cornely, Reg. No. 41,687  
1100 Superior Avenue, 7<sup>th</sup> Floor  
Cleveland, Ohio 44114-2518  
216/861-5582

---

CERTIFICATE OF EXPRESS MAILING

I certify that this New Application Transmittal and accompanying documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated below and is addressed to: MAIL STOP PATENT APPLICATION, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Express Mail Label No.:	Signature
EL 964453493 US	
Date	Printed Name
March 31, 2004	Iris E. Weber